Abstract of the Disclosure

An OFDM frequency control device converts an
incoming signal from analog to digital and calculates
5   a correlation value between the guard interval and data
part from which the guard interval is copied, of the
A/D converted incoming signal. Then, the device averages
such correlation values for the first frame through a
plurality of frames and detects the peak of the averaged
10   correlation value. Then, by detecting the phase of the
peak position, the device generates the control signal
for an oscillator. The control signal is set in such
a way that a control amount for each time should be a
control step α and is applied to the oscillator.
15   Furthermore, α is appropriately controlled based on
detected information.